IN THE CLAIMS:

Please cancel Claims 2 and 27 without prejudice to or disclaimer of their subject matter.

Please amend Claims 1, 3, 4, 7-9, 11, 13, 15, 17, 19, 21, 23, 28, 29, 30 and 37-42 as follows:

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1. (Amended) An optical element comprises a reflection preventive light-shielding member comprising a metal at the periphery of an effective area of the optical element.

3. (Amended) An optical element according to Claim
[2] 1, wherein the reflection preventive light-shielding member
is composed of one of a low-reflection chromium layer, and a
multilayer film of a chromium oxide layer and a metallic chromium
layer.

as

4. (Amended) An optical element provided with a reflection preventive light-shielding member comprising a ceramic material at the periphery of an effective area of the optical element.

7. (Amended) An optical element according to [one of Claims] Claim 1 [to 6], wherein an alignment mark is provided on the light-shielding member.

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- 8. (Amended) An optical element provided with a reflection preventive light-shielding member composed of a light-shielding ink and an alignment mark at the periphery of the optical element.
- 9. (Amended) An optical element according to [Claim 7 or] Claim 8, wherein the light-shielding member and alignment mark are provided by printing.

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- 11. (Amended) An optical element provided with an effective area and a reflection preventive light-shielding area in the periphery of the effective area, the reflection preventive light-shielding area blocking UV-laser light with a wavelength of 250 nm or less and generating no undesirable substances when irradiated by laser light.
- 13. (Amended) An optical element provided with an effective area and a reflection preventive light-shielding area in the periphery of the effective area, the reflection preventive

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light-shielding area blocking UV light and generating no undesirable substances due to irradiation by the UV light.

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15. (Amended) An optical element provided with an effective area and a reflection preventive light-shielding area in the periphery of the effective area, the reflection preventive light-shielding area plocking radiation energy and generating no undesirable substances when irradiated.

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17. (Amended) An optical element provided with an effective area and a <u>reflection preventive</u> light-shielding area in the periphery of the effective area, the <u>reflection preventive</u> light-shielding area blocking UV laser light with a wavelength of 250 nm or less and being resistant to the laser light.

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19. (Amended) An optical element provided with an effective area and a reflection preventive light-shielding area in the periphery of the effective area, the reflection preventive light-shielding area blocking UV light and being resistant to the UV light.

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21. (Amended) An optical element provided with an effective area and a reflection preventive light-shielding area in the periphery of the effective area, the reflection preventive

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light-shielding area blocking radiation energy and being resistant to the radiation energy.

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23. (Amended) An optical element provided with a reflection preventive light-shielding member comprising an inorganic material at the periphery of an optical element.

28. (Amended) An optical element according to Claim
26 [or 27], wherein the material comprises at least one of
chromium, aluminum, molypdenum, tantalum and tungsten.

[1]

[Claims] Claim 26 [to 28] wherein the material is subjected to a reflection preventive treatment, the reflection preventive treatment comprises a laminated structure of a metal oxide layer on the light-shielding member.

30. (Amended) An optical element according to [Claims 26 to 28] Claim 29, wherein the metal oxide layer comprises at least one of silicon oxide and aluminum oxide.

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37. (Amended) An element according to any <u>one</u> of [Claim 1 to 35] Claims 1, 4, 8, 11, 13, 15, 17, 19, 21 and 23, wherein a diffractive surface is formed in said effective area.

- 38. (Amended) An element according to any <u>one</u> of [Claim 1 to 35] <u>Claims 1, 4, 8, 11, 13, 15, 17, 19, 21 and 23, wherein said element is a diffractive optical element.</u>
- 39. (Amended) An optical system having the optical element according to any one of [Claims 1 to 35] Claims 1, 4, 8, 11, 13, 15, 17, 19, 21 and 23.
- 40. (Amended) An illumination apparatus illuminating a face utilizing the optical system containing the optical element according to any one of [Claim 1 to Claim 35] Claims 1, 4, 8, 11, 13, 15, 17, 19, 21 and 23.
- 41. (Amended) A projection exposure apparatus for illuminating a pattern on a first subject by taking advantage of a light flux via the optical system containing the optical element according to any one of Claims 1 [to 35] , 4, 8, 11, 13, 15, 17, 19, 21 and 23, thereby projecting and exposing the pattern on the first subject on a substrate face with the projection optical system.
- 42. (Amended) A method for manufacturing a device, wherein the pattern on the mask is illuminated by taking advantage of the light flux via the optical system containing the

optical element according to any one of Claims 1 [to 35] , 4, 8,

11, 13, 15, 17, 19, 21 and 23, the device being manufactured via

a development step after exposing the wafer face with the pattern.

Please add Claims 43-67 as follows:

--43. An optical element according to Claim 7, wherein the light-shielding member and alignment mark are provided by printing.

44. An optical element according to Claim 43, wherein the portions where the light-shielding ink does not protrude.

45. An optical element according to Claim 4, wherein an alignment mark is provided on the light-shielding member.

46. An optical element according to Claim 45, wherein the light-shielding member and alignment mark are provided by printing.

- 47. An optical element according to Claim 46, wherein the portions where the light-shielding ink does not protrude.
- 48. A diffractive optical element comprising a light-shielding area at the periphery of an effective area of the diffractive optical element.
- 49. An optical system having the diffractive optical element according to Claim 48.
- 50. An illumination apparatus illuminating a face utilizing the optical element according to Claim 48.
- 51. A projection exposure apparatus for illuminating a pattern on a first subject by taking advantage of a light flux via the optical system containing the optical element according to Claim 48, thereby projecting and exposing the pattern on the first subject on a substrate face with the projection optical system.
- 52. A method for manufacturing a device, wherein a pattern on a mask is illuminated by taking advantage of the light flux via the optical system containing the optical element

according to Claim 48, the device being manufactured via a development step after exposing the wafer face with the pattern.

- 53. A diffractive optical element comprising a light-shielding member at a periphery of an effective area of the diffractive optical element.
- 54. An optical system having the diffractive optical element according to Claim 53.
- 55. An illumination apparatus illuminating a face utilizing the optical element according to Claim 53.
- 56. A projection exposure apparatus for illuminating a pattern on a first subject by taking advantage of a light flux via the optical system containing the optical element according to Claim 53, thereby projecting and exposing the pattern on the first subject on a substrate face with the projection optical system.
- 57. A method for manufacturing a device, wherein a pattern on a mask is illuminated by taking advantage of the light flux via the optical system containing the optical element

according to Claim 53, the device being manufactured via a development step after exposing the wafer face with the pattern.

- 58. An optical element comprising a reflection preventive light-shielding area at a periphery of an effective area of the optical element.
- 59. An optical system having the diffractive optical element according to Claim 58.
- 60. An illumination apparatus illuminating a face utilizing the optical element according to Claim 58.
- 61. A projection exposure apparatus for illuminating a pattern on a first subject by taking advantage of a light flux via the optical system containing the optical element according to Claim 58, thereby projecting and exposing the pattern on the first subject on a substrate face with the projection optical system.
- 62. A method for manufacturing a device, wherein a pattern on a mask is illuminated by taking advantage of the light flux via the optical system containing the optical element

according to Claim 58, the device being manufactured via a development step after exposing the wafer face with the pattern.

- 63. A diffractive optical element comprising a reflection preventive light-shielding member at a periphery of an effective area of the diffractive optical element.
- 64. An optical system having the diffractive optical element according to Claim 63.
- 65. An illumination apparatus illuminating a face utilizing the optical element according to Claim 63.
- 66. A projection exposure apparatus for illuminating a pattern on a first subject by taking advantage of a light flux via the optical system containing the optical element according to Claim 63, thereby projecting and exposing the pattern on the first subject on a substrate face with the projection optical system.
- 67. A method for manufacturing a device, wherein a pattern on a mask is illuminated by taking advantage of the light flux via the optical system containing the optical element